Course Code: EITG - 103 Course Title: Fundamentals of Computer		
Number of Cre		larks: 75
Prerequisites for		
	be English literate	
Objectives of Course		
1. To understand fundamentally the general scope of the computer system		
2. To interact effectively with the computer		
3. To know the computer peripherals		
4. To manage the storage fundamentals		
5. To know the	basics of Operating System	
6. To know so	me basic PC Specifications	
Course Conten	t	
Unit I	Introduction to Computers	2 Hours
Introduction, D	efinition, .Characteristics of computer, Evolution of Computer, Block	Diagram Of a computer,
Generations of (Computer, Classification Of Computers, Applications of Computer, Capa	bilities and limitations of
computer.		
Unit II	Computer Peripherals: Internal Components	8 Hours
	A Devices: Hard Disk Drive and CD/DVDs Drives, Floppy Disk, Zi	
	s: LAN Card, IDE Card , VGA and SVGA Cards, Sound Card, Interface	e Cards, I/O cards, Video
	d, Fire-Wire Cards, Internal Ports, Cables and Connector Types.	
Unit III	Computer Peripherals: External Components	8 Hours
	LCD and LED Displays. Printers: Dot-Matrix Printer, Inkjet Printer, Las	
Scanner: Photo Scanner, Documents Scanner, Bar Cord Scanner. Keyboards, Mouse, External Modem, Ports and		
Connectors, Batteries, Power supply, Pen Drives, SCSI interface devices, Laptop Computers, Digital Advance		
storage technolo		-
Unit III	Storage Fundamentals	8 Hours
Primary Vs Secondary Storage, Data storage & retrieval methods. Primary Storage: RAMROM, PROM, EPROM, EEPROM. Secondary Storage: Magnetic Tapes, Magnetic Disks. Cartridge tape, hard disks, Floppy disks Optical Disks, Compact Disks, Zip Drive, Flash Drives.		
Unit V	Operating System Basics	8 Hours
	asuring System Performance, Assemblers, Compilers and Interpre	
Multiprogramm	ing, Multi-Tasking, Multiprocessing, Time Sharing, DOS, Windows, Uni	ix/Linux.
Unit VI	PC Specifications	8 Hours
CPU: Generation, core, threads, RAM, Storage, System type OS Specifications, Ports available, Battery specifications, Comparison of Competitive brands		
Pedagogy		
Lectures/Tutorial/Assignments		
Course Outcome		
On completion of the course, students will be able to:		
1. Bridge the fundamental concepts of computers with the present level of knowledge of the students		
 Familiarise with operating systems, programming languages, peripheral devices. Hadapate devices for device to be a set of the se		
3. Understand	storage fundamentals	
References/Readings		
	reja, Fundamentals of Computers.	
2. V. Rajaraman, 6 th Edition Fundamentals of Computers, Neeharika Adabala.		
3. Anita Goel, Computer Fundamentals.		
4. Deborah Morley and Charles S. Parker; Fundamentals of Computers; Cengage Learning, India edition; 2009.		
5. Alexis Leon and Mathews Leon; Fundamentals of Information Technology; Vikas Publication, Chennai.		
6. Peter Nortons- Introduction to Computers, Sixth Edition, Published by Tata McGraw Hill		
7. P K Sinha & Priti Sinha – Computer Fundamentals, Fourth Edition, BPB Publications.		
8. Fundamentals of Computers, V Rajaraman 6 th edition PHI Learning Private Limited 2014		
9. Nasib Singh Gill: Handbook of Computer Fundamentals, Khanna Books Publishing Co.(P) Ltd., New Delhi, 2016.		
10. Data communications and Networking, Behrouz A Forouzan, Tata Mc Graw-Hill 5th edition, 2013		